

The following items should be collected from each team, and assessed after the completion of the Mars Sample Analysis Mission: **Map, Command Sequence Cards (in the order they were given), and any calculations or notes.** The Rover's score should be decided by the adult supervisor on Mars. It is important to let students know ahead of time that the teacher will score them on the same criteria as the Team Scoring Rubric.

Teacher Scoring Rubric for Mars Sample Analysis

	Map	Command Sequence	Calibration	Rover
4	Map is complete and accurate. All obstacles are in correct locations. Scale is used consistently.	Communications strategy is effective. Rover is able to execute command sequences correctly 90% of the time. Commands lead rover in desired direction.	Rover's step sizes are well documented and follow a linear pattern. (ex. If 1 step = 2 feet, 5 steps should = 10 feet). Proportion is used to consistently and effectively scale step size with distance on map.	Rover correctly executes command sequences without making any additions or omissions 90% of the time. Correctly follows all rules (ex. SAFE-HOLD). Remains blindfolded at all times.
3	Map is mostly complete and accurate. Most obstacles are in correct locations. Scale is used consistently.	Communications strategy is sufficient. Rover is able to execute command sequences correctly 75% of the time. Commands usually lead rover in desired direction.	Rover's step sizes are well documented and follow a mostly linear pattern. Proportion is used to consistently scale step size with distance on map.	Rover correctly executes command sequences without making any additions or omissions 75% of the time. Correctly follows all rules (ex. SAFE-HOLD). Remains blindfolded at all times.
2	Map is incomplete or only somewhat accurate. Some obstacles are incorrectly placed or missing. Scale is not always consistent.	Communications strategy is somewhat sufficient. Rover is able to execute command sequences correctly 50% of the time. Commands sometimes lead rover in desired direction.	Rover's step sizes are documented and follow a somewhat linear pattern. As number of steps increases so does distance traveled. CAL attempts to use proportion to scale step size with distance on map.	Rover correctly executes command sequences without making any additions or omissions 50% of the time. Usually follows all rules (ex. SAFE-HOLD). Remains blindfolded at all times.
1	Map is incomplete or inaccurate. Most obstacles are incorrectly placed or missing. Scale is incorrect, or no scale is used.	Communications strategy is insufficient or flawed. Rover is able to execute command sequences correctly less than 50% of the time. Commands often lead rover in undesired direction.	Rover's step sizes are not documented or do not follow any pattern. CAL attempts unsuccessfully to use proportion to scale step size with distance on map, or an attempt is not made.	Rover correctly executes command sequences without making any additions or omissions less than 50% if the time. Does not follow rules, or removes blindfold.

Map Score /4
 Command Sequence Score /4
 Calibration Score /4

Rover Score /4
 Total Score /16

